

INTERNATIONAL SEARCH REPORT

National Application No

PCT/SG2004/000226

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 E04H17/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E04H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	US 4 503 423 A (MAINIERO JOSEPH J ET AL) 5 March 1985 (1985-03-05) column 6, line 49 - column 7, line 43; figure 13	1,2,6-8, 15-17,19 3-5
X A	DE 40 35 388 A (COCHRANE STEEL PROD PTY LTD) 25 July 1991 (1991-07-25) column 3, line 7 - column 5, line 59; figures 1-6	1,2,6-8, 15-17,19 9-14,18
X	DE 41 31 707 A (COCHRANE STEEL PROD PTY LTD) 25 March 1993 (1993-03-25) column 2, line 32 - column 5, line 27; figures 1-5	1,6-8, 15-17,19
	----- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

29 October 2004

Date of mailing of the international search report

09/11/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Stefanescu, R

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/SG2004/000226

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FR 2 758 485 A (COCHRANE STEEL PROD PTY LTD) 24 July 1998 (1998-07-24) page 6, line 18 - page 7, line 2; figures 1,3,4 -----	16,17,19
Y	FR 1 076 099 A (JULES-DESIRE ARRAULT) 22 October 1954 (1954-10-22) the whole document -----	3-5
A	FR 2 155 104 A (CHATILLON GORCY TREFILER) 18 May 1973 (1973-05-18) the whole document -----	1,6-10, 15

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

/SG2004/000226

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4503423	A	05-03-1985	CA 1190422 A1	16-07-1985
			DE 3301147 A1	04-08-1983
			GB 2114180 A ,B	17-08-1983
			GB 2154627 A ,B	11-09-1985
			GB 2162879 A ,B	12-02-1986
			IL 67687 A	31-03-1986
			IL 75125 A	31-03-1986
			KR 9000947 B1	19-02-1990
DE 4035388	A	25-07-1991	DE 4035388 A1	25-07-1991
			GB 2240351 A ,B	31-07-1991
DE 4131707	A	25-03-1993	GB 2259722 A	24-03-1993
			DE 4131707 A1	25-03-1993
FR 2758485	A	24-07-1998	FR 2758485 A1	24-07-1998
FR 1076099	A	22-10-1954	NONE	
FR 2155104	A	18-05-1973	FR 2155104 A5	18-05-1973